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# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	145.1002.02
First Inventor	Wei YEN
Title	Creation of Customized Web Pages for Use in a System of Dynamic Trading of Knowledge, Goods and Services
Express Mail Label No.	EL 524 780 551 US

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1.  Fee Transmittal Form (e.g., PTO/SB/17)  
*(Submit an original and a duplicate for fee processing)*
2.  Applicant claims small entity status.  
See 37 CFR 1.27.
3.  Specification [Total Pages 20]  
*(preferred arrangement set forth below)*
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings *(if filed)*
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4.  Drawing(s) (35 U.S.C. 113) [ Total Sheets 3 ]
5. Oath or Declaration [ Total Pages ]  
 a.  Newly executed (original or copy)  
 b.  Copy from a prior application (37 CFR 1.63 (d))  
*(for continuation/divisional with Box 17 completed)*
  - i.  **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6.  Application Data Sheet. See 37 CFR 1.76

**ADDRESS TO:** Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7.  CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission *(if applicable, all necessary)*
  - a.  Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i.  CD-ROM or CD-R (2 copies); or
    - ii.  paper
  - c.  Statements verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

9.  Assignment Papers (cover sheet & document(s))
10.  37 CFR 3.73(b) Statement  Power of *(when there is an assignee)*  Attorney
11.  English Translation Document *(if applicable)*
12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS Citations
13.  Preliminary Amendment
14.  Return Receipt Postcard (MPEP 503) *(Should be specifically itemized)*
15.  Certified Copy of Priority Document(s) *(if foreign priority is claimed)*
16.  Other. Certificate of Mailing .....

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation     Divisional     Continuation-in-part (CIP)

of prior application No.: \_\_\_\_\_ / \_\_\_\_\_

Prior application information.

Examiner \_\_\_\_\_

Group / Art Unit. \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

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Documents enclosed:

- Utility Patent Application Transmittal Form;
- Specification (15) pages;
- Claims (4) pages;
- Abstract (1) pages;
- Drawings (3) pages;
- Return post card; and
- Certificate of Express Mailing.



145.1002.02

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1 This application is submitted in the name of the following inventor(s)

2

3	<u>Inventor</u>	<u>Citizenship</u>	<u>Residence City and State</u>
4	Wei YEN	United States	27886 Via Ventana 5 Los Altos Hills, CA 94022

6

7 Title of the Invention

8

9 Creation of Customized Web Pages for Use in a System of Dynamic Trading of  
10 Knowledge, Goods and Services

11

12 Background of the Invention

13

This application claims the benefit of U.S. Provisional Application No. 60/161,319  
14 filed 10/25/99 (Attorney Docket number 145.1002.01).

15

16 1. *Field of the Invention*

17

18 This invention relates to the creation of home pages to be used in an inter-  
19 networking system for dynamic trading of knowledge and services.

20

1    2.    *Related Art*

2

3                 One aspect of the Internet that has become popular is the use of web pages  
4    to advertise goods and services to a wide audience.5                 One problem in the known art occurs when a provider of goods and services  
6    is not knowledgeable in the art of creating a web page "from scratch". Although such  
7    providers can call upon the services of special web page designers or use software that  
8    assists in the creation of the web pages, the providers may lack the information necessary  
9    to evaluate such services, use complex software or make the artistic and marketing deci-  
10      sions relating to what information they wish a prospective buyer to view.

11

12                 A second problem in the known art occurs when a provider of good or  
13    services puts their web pages on-line. Even if the web page describes the goods and  
14    services and informs the seeker of such goods or services how to contact the provider, a  
15    party seeking such goods and services would have to find the web page, often engaging in  
16    a relatively tiresome procedure of eliminating products and services that are irrelevant to  
17    his search.

18

19                 Accordingly, it would be advantageous to provide an enabling technology  
20    whereby the provider of knowledge, services or goods can easily create a home page that  
21    provides information about his business and display the home page at a commercial site  
22    that is dedicated to the dynamic trade of goods and services. This enabling technology

1 guides the provider through a step-by-step procedure to create a home page. During this  
2 procedure, the provider makes choices concerning what type of information to display  
3 and how best to display it. The resulting customized home page is then displayed at a  
4 central site so that persons seeking goods or services can evaluate what is offered and  
5 contact the provider.

6

7 Summary of the Invention

8

9 The invention provides a method and system for creating and customizing a  
10 home page that is used in conjunction with a technique for dynamically trading knowl-  
11 edge and services.

12

13 A provider of knowledge, goods or services contacts a web site and requests  
14 a web page on a web site dedicated to dynamically providing goods and services.

15

16 In response to the request, the web site allows the provider of knowledge,  
17 goods or services an opportunity to interact with a computer program to create a specially  
18 customized web page.

19

20 The computer program guides the provider of knowledge, goods or services  
21 through a step-by-step procedure, during which the provider is presented with a number  
22 of mandatory information fields that are used in the creation of a customized home page.

1 In addition to including the mandatory fields, the customized home page could include a  
2 number of optional fields that would better highlight the goods and services. For example,  
3 the provider could decide to  
4 • display optional fields in his home page (in addition to the mandatory ones);  
5 • create and display several different types of fields, including drop-down menus, check  
6 boxes, radio groups, text labels, scrolling text boxes and text boxes;  
7 • create and save forms that can be attached to each service provided (for example, or-  
8 der forms, customer identification forms and credit history forms); and  
9 • create and display multiple services in a single home page.

10  
11 The resulting web page provides prospective clients with some or all of the  
12 following information: the name of the provider, the type of product, the amount of prod-  
13 uct available, a way of categorizing the product, a description, a fixed price, optional  
14 goods or services and other related information that would be helpful to those trying to  
15 identify providers of good and services and select among them.

16  
17 In a preferred embodiment, the web page is displayed on a particular web  
18 site, along with other web pages created by other providers of knowledge, goods or serv-  
19 ices. This central location, as it were, eliminates problems associated with searching for  
20 particular products or vendors on line. Instead of sorting through results gathered by a  
21 search engine, clients can go directly to the centralized site.

22

1                   Brief Description of the Drawings

2

3                   Figure 1 is a block diagram that shows an apparatus for creating a web page  
4                   that can be used in a system for dynamically trading information, goods, and services.

5

6                   Figures 2A and 2B are a flow chart that shows a method for creating a web  
7                   page and displaying it in a system for dynamically trading information, goods, and serv-  
8                   ices.

9

10                  Detailed Description of the Preferred Embodiment

11

12                  In the following description, a preferred embodiment of the invention is de-  
13                  scribed with regard to preferred process steps and data structures. Embodiments of the  
14                  invention can be implemented using general-purpose processors or special purpose proc-  
15                  essors operating under program control, or other circuits adapted to particular process  
16                  steps and data structures described herein. Implementation of the process steps and  
17                  structures described herein would not require undue experimentation or further invention.

18

19                  *System Elements*

20

21                  Figure 1 is a block diagram that shows an apparatus for creating a web page  
22                  that can be used in a system for dynamically trading information, goods and services.

1

2           A system 100 includes at least one first client device 110 under the control  
3       of a provider of knowledge, goods or services 120, at least one server device 130 that dis-  
4       plays a plurality of web pages 140, at least one second client device 150 under the control  
5       of the end user 160, and a communications network 170.

6

7           The first client device 110 is under the control of a provider of knowledge,  
8       goods or services 120 who is interested in creating and displaying a web page 140. The  
9       client workstation 110 includes a computer having a processor 111, a memory or mass  
10      storage 112, a presentation element 113, an input element 114, and a network connection  
11      115 that may be coupled to the communications network 170. As used herein, the term  
12      “computer” is intended in its broadest sense, and includes any device having a program-  
13      mable processor or otherwise falling within the generalized Turing machine paradigm.

14

15           Similar to the first client device 110, the second client device 150 also in-  
16       cludes a computer having a processor 151, a memory or mass storage 152, a presentation  
17       element 153, an input element 154, and a network connection 155. However, the second  
18       client device 150 can be under the control of an end user 160. In a preferred embodiment,  
19       the end user 160 is navigating a communications network 170 in search of particular  
20       knowledge, goods or services.

21

1           The server device 130 includes at least one computer having a processor  
2        131, a memory or mass storage 132, a presentation element 133 and an input element 134.  
3        The server 130 also includes a computer program 135 for generation of web pages 140,  
4        one or more web sites 136 for displaying web pages 140 that are created using the com-  
5        puter program 135, a database 137, and web server software 138.

6

7           Although described as a single entity, the server 130 may include multiple  
8        servers, so that the computer program 135 for generation of web pages 140 and the one or  
9        more web sites 136 and the database 137 may reside (collectively or as single entities) in  
10      a single memory 132 or in different memories 132 spanning several different servers 130.  
11      Like the client workstation 110, the server 130 is coupled to the communication network  
12      170. As used herein, the term “computer” is intended in its broadest sense, and includes  
13      any device having a programmable processor or otherwise falling within the generalized  
14      Turing machine paradigm.

15

16           In a preferred embodiment, the provider of knowledge, goods or services  
17        120 uses their associated client device 110 and the communications network 170 to log on  
18        to a web site associated with the server device 130 and interact with the computer pro-  
19        gram 135 to generate a web page 140.

20

21           The computer program 135 a set of instructions that govern interactions  
22        between the provider 120 and the server 130. These instructions include requesting spe-

1 cific demographic information 141 about the provider of knowledge, goods or services  
2 120 and the type of business or organization on whose behalf the web page 140 is being  
3 generated. In addition to providing information for billing purposes, this demographic  
4 information 141 may be used to suggest where the web page 140 should be displayed. In  
5 a first example, if the provider 120 identifies themselves as a school, then the web page  
6 140 might be displayed with web pages 140 from other schools. In a second example, if  
7 the provider 120 identifies themselves as a car retailer, then the web page 140 might be  
8 displayed with web pages 140 from other car dealers.

9  
10 The demographic data 141 includes some or all or some combination of the  
11 following:

- 12  
13 • the name of the provider 120, assorted contact information and credit card information  
14 • the type of product  
15 • the amount of product available  
16 • a way of categorizing the product, service or knowledge  
17 • a description of the product  
18 • a fixed price, optional goods or services and other related information that would be  
19 helpful to those trying to identify providers of goods and services 120 and select  
20 among them.

21

1 After acquiring this demographic information 141, the computer program  
2 135 includes an instruction to present the providers of knowledge good or services 120  
3 with a step-wise sequence of choices 142, relating to the types of content that are to be  
4 displayed on the web page 140 and how that content is to be displayed. This step-wise  
5 sequence of choices 142 may include some or all or some combination of the following:

6

- 7 • text fields to be displayed on a web page 140
- 8 • fonts for text fields
- 9 • size of text to be included in a text field
- 10 • “wallpaper” styles
- 11 • links to other sites
- 12 • fields for graphics (for example, fields for showing photographs of a product)
- 13 • fields for streaming media (for example, sound sampling, video snips)
- 14 • design elements to be included in a page (for example, the provider 120 may chose  
15 from a collection of different graphical images)
- 16 • display optional fields in a web page (in addition to the mandatory ones)
- 17 • select from different types of fields, including drop-down menus, check boxes, radio  
18 groups, text labels, scrolling text boxes and text boxes
- 19 • create and save forms that can be attached to each service provided (for example, or-  
20 der forms, customer identification forms and credit history forms)
- 21 • create and display multiple services in a single web page.

- 1     • other graphic tools, such as a tool to move elements included on a page.

2

3                 The one or more web sites 136 include centralized locations on a network  
4                 for the display of web pages 140. Each web site 136 includes a plurality of web pages  
5                 140, or links to web pages 140, so as to organize the web pages 140 in a way as to make  
6                 them more accessible to an end user 160. These one or more web sites 136 relieve the  
7                 end user 160 from problems associated with finding information on a network (for exam-  
8                 ple, reviewing search engine results).

9

10                 In a preferred embodiment, a particular web page 140 may be displayed at  
11                 one or more of the web sites 136. For example, if a web page 140 is generated by a  
12                 medical school and contains information about a particular disease, the web page 140  
13                 may be displayed on a web site 136 devoted to medical schools and a web site 136 de-  
14                 votes to health concerns. In a preferred embodiment, each web page 140 is the home  
15                 page for the provider 120 so that a particular web site 136 contains a cluster of home  
16                 pages or links to home pages.

17

18                 The database 137 includes a file 138 for each provider of knowledge, goods  
19                 or services 120. The file 138 contains all of the demographic data 141, drafts of web  
20                 pages 140 created by the provider 120, and information related to the web pages 140 cre-  
21                 ated by the provider 120 such as the number of “hits” in a particular time period.

22

1           Web server software 138 includes a computer program for displaying the  
2       web site 136 and the web pages 140 on a network using the server device 130.

3

4           In a preferred embodiment, the communications network 170 includes the  
5       Internet. However, it may also include any other type of computer network, such as an  
6       intranet, extranet or a virtual private network. Communications over this communication  
7       network may involve any number or combination of technologies such a direct communi-  
8       cation line, a switched network such as a telephone network, a wireless network, a form  
9       of packet transmission or some combination thereof. All variations of communication  
10      links noted herein are known in the art of computer communication.

11

12           Figures 2A and 2B are flow charts that show a method for creating a web  
13       page and displaying it in a system for dynamically trading information and services.

14

15           The method 200 is performed by the system 100. Although the method 200  
16       is described serially, the steps of the method 200 can be performed by separate elements  
17       in conjunction or parallel, whether asynchronously, in a pipelined manner, or otherwise.  
18       There is no particular requirement that the method 200 be performed in the same order in  
19       which this description lists the steps, except where so indicated.

20

21           At a flow point 205, the system 100 is ready to begin creating a web page  
22       140 and displaying it in a system for dynamically trading information and services.

1

2 At a flow point 210, a provider of knowledge, goods or services 120 uses a  
3 client device 110 to contact the server device 130.

4 At a flow point 215, the provider 120 begins interacting with the computer  
5 program 135. The provider completes various data fields so as to provide the computer  
6 program with demographic data 141. This demographic data can include some or all or  
7 some combination of the following:

8

- 9
- 10 • the name of the provider 120, assorted contact information and credit card information
  - 11 • the type of product
  - 12 • the amount of product available
  - 13 • a way of categorizing the product, service or knowledge
  - 14 • a description of the product
  - 15 • a fixed price
  - 16 • optional goods or services and other related information that would be helpful to end users 160 who are trying to identify providers of goods and services 120 and select among them.

18

19 In a step 215, the demographic data 141 is stored in the database 137.

20

21 In a step 220, the provider 120 continues interacting with the computer pro-  
22 gram 135. The computer program 135 presents a step-wise series of choices 142 to the

1 provider 120. A subsequent step in the series of choices 142 is generally responsive to  
2 the preceding choice made by the provider 120. For example, if a provider 120 selects  
3 “pull-down menus”, the next step in the series of choices may involve completion of text  
4 fields included in the pull-down menu.

5

6 These series of choices 142 may include some or all or some combination  
7 of the following:

8

- 9 • text fields to be displayed on a page
- 10 • fonts for text fields
- 11 • size of text to be included in a text field
- 12 • “wallpaper” styles
- 13 • links to other sites
- 14 • fields for graphics (for example, fields for showing photographs of a product)
- 15 • fields for streaming media (for example, sound sampling, video snips)
- 16 • design elements to be included in a web page 140 (for example, the provider 120 may  
17 chose from a collection of different graphical images)
- 18 • optional fields in a web page (in addition to the mandatory ones)
- 19 • different types of fields, including drop-down menus, check boxes, radio groups, text  
20 labels, scrolling text boxes and text boxes

- 1     • forms that can be attached to each service provided (for example, order forms, cus-  
2         tomer identification forms and credit history forms)  
3     • multiple services in a single web page.  
4     • other graphic tools, such as a tool to move elements included on a page.

5

6                  In a step 225, the computer program 135 generates a sample web page 140  
7         based upon the provider's 120 responses to the step-wise series of choices 142 and pres-  
8         ents it to the provider 120 for review.

9

10                 In a step 230, the provider 120 reviews the web page 140. If necessary, the  
11         provider 120 continues to interact with the computer program 135 to make any changes in  
12         the web page 140. Steps 225 and 230 may be repeated until such time that the provider  
13         120 believes that the web page 140 is complete.

14

15                 In a step 235, the computer program 135 stores a record of all of the pro-  
16         vider's 120 choices in the database 137.

17

18                 In a preferred embodiment, the preceding steps may take place in a single  
19         session or in multiple sessions. If they take place in multiple sessions, the results of each  
20         session are stored in the database 137 at the end of that particular session and retrieved  
21         from the database 137 at the start of the next session.

22

1           In a step 240, the computer program compares the demographic data 141  
2       associated with the provider 120 to other demographic data provided by other providers.  
3       This comparison is used to determine a particular web site 136 where the web page 140  
4       will be displayed. Generally, the choice is made upon commonality of specific demo-  
5       graphic information, such as type of business, type of content, geographic location and  
6       other factors.

7

8           In a step 245, the web page 140 is displayed at the particular web site 136  
9       determined in the previous step. An end user 160 may access the web page 140 by going  
10      to the web site 136. End users 160 and providers 120 can dynamically trade goods, serv-  
11      ices and information by using the web pages 140 stored at the web site 136.

12

13           In a step 250, the computer program generates a bill to be presented to pro-  
14       vider 120. This bill may include fees for both the creation of the customized web page  
15       140 and the display of the customized web page 140 on the web site 136.

16

17       *Alternative Embodiments*

18

19           Although preferred embodiments are disclosed herein, many variations are  
20       possible which remain within the concept, scope and spirit of the invention and these  
21       variations would become clear to those skilled in the art after perusal of this application.

1                   Claims

2

3                 1. A method of creating a web page that can be used in a dynamic sys-

4                 tem for trading good and services, wherein said method includes

5                         interacting with a computer program stored at a remote location using a

6                 computerized communication system so as to provide said computer program with a first

7                 set of information concerning a first provider;

8                         generating said web page, wherein said web page is responsive to said first

9                 set of information;

10                         aggregating said first set of information with at least one second set of in-

11                 formation provided by at least one second provider;

12                         determining a location to display said web page; and

13                         displaying said web page.

14                 2. A method as in claim 1, wherein said step of interacting includes in-

15                 teracting with an application server provider.

16

17                 3. A method as in claim 1, wherein said first set of information includes

18                 demographic information about the first provider and product information about a good or

19                 service or type of knowledge that is offered by the first provider.

20

1           4. A method as in claim 3, wherein said demographic information in-  
2         cludes information necessary for processing a payment from the first provider.

3

4           5. A method as in claim 1, wherein said first set of information includes  
5         a set of interactive responses to said computer program, wherein said interactive re-  
6         sponses include data relating to stylistic and substantive elements included in said web  
7         page.

8

9           6. A method as in claim 1, wherein said step of aggregating includes  
10         determining a commonality between said first set of information and said second set of  
11         information.

12

13           7. A method as in claim 1, wherein said step of determining a location  
14         includes determining at least one web site.

15

16           8. A method as in claim 7, wherein said at least one web site is logi-  
17         cally related to said remote location of said computer program.

18

19           9. A method as in claim 1, including the step of storing said first set of  
20         information in a database.

21

1           10. A method as in claim 1, including the step of storing said web page  
2       in a database.

3

4           11. An apparatus, including  
5       at least one client device under the control of a provider who wishes to cre-  
6       ate a web page that is used in a dynamic system for trading goods and services;  
7       at least one server device that can be accessed by said client device;  
8       a memory coupled to said server device, wherein said memory includes a  
9       computer program providing an interactive set of instructions for generation of web pages  
10      and determination of at least one web site,  
11      a database coupled to said server, wherein said database includes at least  
12      one record regarding a provider.  
13      at least one web site wherein said web pages are displayed; and  
14      a communication link.

15  
16           12. An apparatus as in claim 12, wherein said instructions include  
17       an instruction to present a query to said client device for demographic in-  
18       formation;  
19       an instruction to receive said demographic information from said client de-  
20       vice and store said demographic information said database;  
21       an instruction to provide a set of interactive steps to said client device;

1               an instruction to receive a response from said client device to said set of  
2   interactive steps, wherein said interactive steps are responsive to feedback from said cli-  
3   ent device;

4               an instruction to store said feedback in said database;  
5               an instruction to generate said web page based upon said feedback;  
6               an instruction to compare said demographic information;  
7               an instruction to associate the results of said instruction to compare with a  
8   web site;

9               an instruction to display said web page at said web site; and  
10              an instruction to charge said provider a fee.

11  
12              13. An apparatus as in claim 12, wherein said interactive steps includes  
13   one or more interactive steps involving compositional elements for inclusion in said web  
14   page.

15  
16              14. An apparatus as in claim 11, wherein said web site and said server  
17   are coupled in such a way as to be logically related.

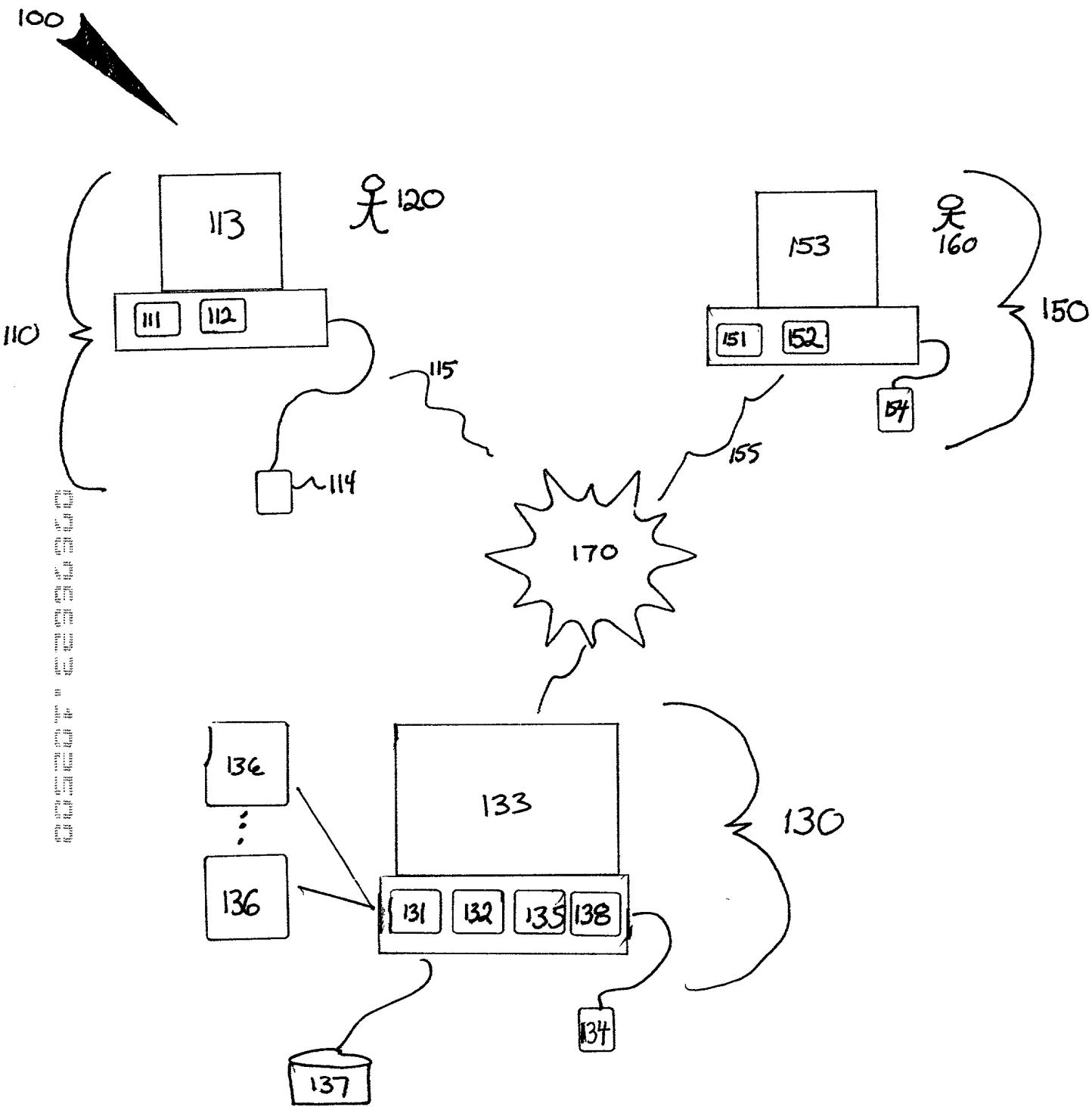
18  
19              20              15. An apparatus as in claim 11, wherein said web site displays a plural-  
21   ity of said web pages.

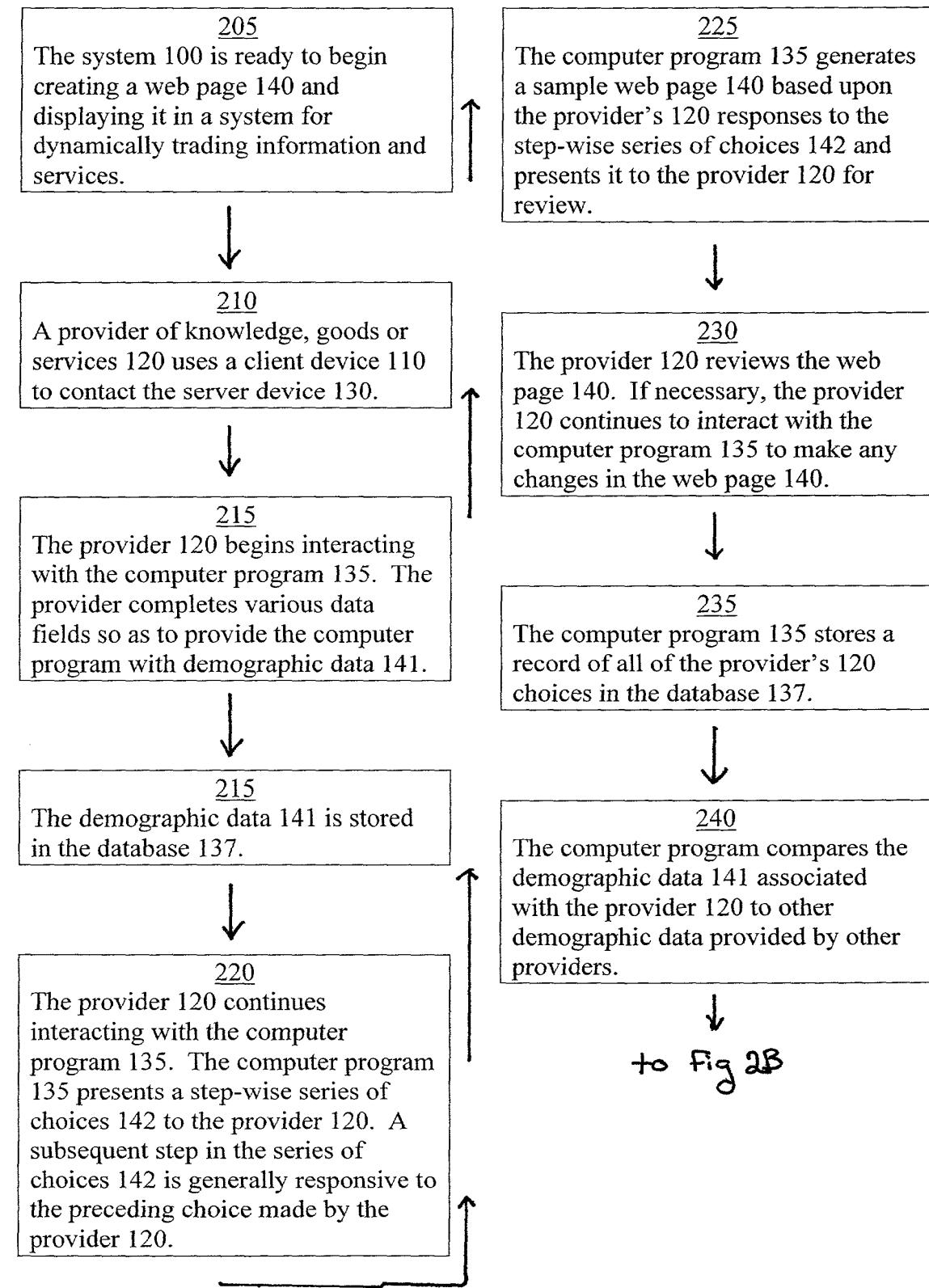
1

Abstract

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3           The invention provides a method and system for creating and customizing a  
4       home page that is used in conjunction with a technique for dynamically trading knowl-  
5       edge and services. A provider of knowledge, goods or services could request a home  
6       page on a web site dedicated to dynamically providing goods and services. Upon re-  
7       ceiving the request, the provider of knowledge, goods or services is given the opportunity  
8       to create a specially customized home page. This homepage provides prospective buyers  
9       with some or all of the following information: the name of the provider, the type of prod-  
10      uct, the amount of product available, a way of categorizing the product, a description, a  
11      fixed price, optional goods or services and other related information that would be helpful  
12      to those trying to identify providers of good and services and select among them. A pro-  
13      vider of goods and services is guided through a step-by-step procedure, during which the  
14      provider is presented with a number of mandatory information fields that are used in cre-  
15      ating a customized home page. In addition to including the mandatory fields, the cus-  
16      tomized home page could include a number of optional fields that would better highlight  
17      the goods and services. For example, the provider could decide to display optional fields  
18      in his home page (in addition to the mandatory ones), create and display several different  
19      types of fields, including drop-down menus, check boxes, radio groups, text labels,  
20      scrolling text boxes and text boxes, create and save forms that can be attached to each  
21      service provided (for example, order forms, customer identification forms and credit his-  
22      tory forms), create and display multiple services in a single home page.







245

The web page 140 is displayed at the particular web site 136 determined in the previous step. An end user 160 may access the web page 140 by going to the web site 136. End users 160 and providers 120 can dynamically trade goods, services and information by using the web pages 140 stored at the web site 136.



250

The computer program generates a bill to be presented to provider 120. This bill may include fees for both the creation of the customized web page 140 and the display of the customized web page 140 on the web site 136.

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